

## ABSTRACT

A method and device for synthesizing an electrical architecture. The method synthesizes a routing that obtains the following parameters: different configurations of service variants and calculator variants and rate of occurrence of the configurations, a sum of the rates of the configurations being considered as equal to one; component cost characteristics stored and weighted according to their respective rates of increase; and partial or full positioning of the service variants on the calculator variants. The method also identifies valid routings, evaluates the routing cost of the valid routings for each configuration, and determines the valid routing that minimizes the average of the routing costs for each configuration, the average being weighted by the rates of increase of each configuration.